



		Time Local/	Path Length	Path Width	Numb Pers	er of sons	Estin Dar	nated nage		July 2005
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

#### **ILLINOIS**, Northwest

ILZ001>002-007-009- Jo Daviess - Stephenson 015>018-024>026-034>035 Hancock - Mcdonough

Jo Daviess - Stephenson - Carroll - Whiteside - Rock Island - Henry - Bureau - Putnam - Mercer - Henderson - Warren -

01 0000CST 0 0 180.1M Drought 31 2359CST

The drought that began back in June 2005 continued through July and into August 2005 and spread into Eastern Iowa and Northeast Missouri. The drought became severe to extreme across Northwest and West Central Illinois while it was only severe across Eastern Iowa and Northeast Missouri. The drought combined with high heat during the second half of the month decimated the corn crop. At one point during the month of July, the dryness for the calendar year across parts of the area equalled or exceeded the dry conditions during the drought of 1988. By late June the governor of Illinois had activated the Drought Response Task Force in response to severe drought conditions. By late July much of the state was declared an agricultural disaster area by the USDA.

Crop loss estimates varied across the entire area. Across Illinois, the worst losses were along the Illinois River Valley with an estimated 40% yield reduction that decreased to around 25-30% along the Mississippi River Valley. In Iowa, loses rapidly decreased the further west one went from the Mississippi River Valley and were near or just slightly below normal upon reaching an Independence to Oskaloosa Iowa line.

Jo Daviess County

1 SSW Derinda Center 24 2215CST

 $0 \hspace{1cm} 1K \hspace{1cm} 1K \hspace{1cm} Thunderstorm \ Wind \ (EG52)$ 

Scattered thunderstorms developed ahead of a cold front moving south from Minnesota and Wisconsin. One storm became pulse severe over Jo Daviess County Illinois between Elizabeth and Hanover. Damaging winds brought down several 12 inch diameter limbs on the Offenheiser Farm 1 mile south southwest of Derinda Center. Several other farmers reported hearing hail during the storm but did not look to see how big.

Bureau County Cherry

Dents in some cars.

A small line of thunderstorms developed in a near tropical atmosphere north of a warm from across southern Iowa into central Illinois. One storm became pulse severe in Muscatine County uprooting large oak trees southwest of Stockton, Iowa at the junction of county routes Y26 and F65. The storm weakened rapidly by the time it entered Scott County Iowa but managed to blow over some temporary construction signs weighted down by sandbags just south of Walcott on county route Y40. KDVN 88D velocity data suggests winds around 43 knots (50 mph) were reaching the surface. An RWIS 5 miles east northeast at the junction of Interstates 80 and 280 recorded 35 knots (40 mph winds).

Boundaries left over from earlier thunderstorms allowed another pulse severe storm to develop in Bureau County Illinois. This storm produced nickel sized hail in Cherry, Illinois.

#### IOWA, East Central and Southeast

IAZ041>042-051>054-063>068-076>078-087>089-098>099 Delaware - Dubuque - Benton - Linn - Jones - Jackson - Iowa - Johnson - Cedar - Clinton - Muscatine - Scott - Keokuk - Washington - Louisa - Jefferson - Henry - Des Moines - Van Buren - Lee

01 0000CST 0 0 154.7M Drought 31 2359CST





Time Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

#### **IOWA, East Central and Southeast**

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Benton	County
Atkins	;

15 1510CST 0 0 2K Hail(0.75)

Mainly pea sized hail. However, a few stones did achive penny size.

Scattered thunderstorms developed during the afternoon hours over eastern Iowa. One storm became strong enough to produce marginal severe hail in Atkins, Iowa.

Benton County						
Vinton	21	0452CST 0456CST	0	0	2K	Thunderstorm Wind (MG55)
	Trees	down				
<b>Benton County</b>						
Urbana	21	0454CST 0530CST	0	0		Heavy Rain
	2.95 is	nches of rain in just over 30 minu	tes with street flooding.			
<b>Buchanan County</b>						
Rowley	21	0500CST 0600CST	0	0		Heavy Rain
	1.75 i	nches of rain in 1 hour.				
<b>Buchanan County</b>						
Rowley to Quasqueton	21	0508CST 0521CST	0	0	4K	Thunderstorm Wind (EG52)

Three separate downbursts occured from Rowley to Quasqueton. A tree fell on a building in Rowley roughly 0508-0513 CST. Another tree was downed on 278th Street 1.5 miles west of Quasqueton roughly 0513-0517 CST. In Quasqueton, a tree fell on a car roughly 0517-0521 CST.

Linn County 1.6 W Walker	21	0510CST 0513CST	0	0		2K	Thunderstorm Wind (EG52)
<b>Benton County</b>							
Vinton	21	0511CST 0515CST	0	0	5K		Thunderstorm Wind (MG59)
	Trees	down.					





CST CST ys 13 and 20		0 0	1.5K	Thundowstorm Wind (MC54)
CST ys 13 and 20		0 0	1.5K	Thundardown Wind (MC54)
.com				Thunderstorm Wind (MG54)
CST CST rain measured in 3	different spots across	0 0 town in 1 hou	ur.	Heavy Rain
he overnight hours.	The line bowed brief	fly around dav	wn as it crossed Benton	produce a line of thunderstorms across County Iowa and produced a damaging County, far northwest Linn County, and
CST zed hail with a few p	penny stones.	0 0		Hail(0.75)
			the Mississippi River is I marginally severe hail	n northeast Iowa and northwest Illinois. in Bellevue, Iowa
CST		0 0	1.5K 2K	Thunderstorm Wind (EG55)
CST t based on 83% of F	KDVN 88D winds of	56 knots (76 n	nph) at 600 AGL.	
	severe in Muscatine The storm weakened	County uproor rapidly by the	oting large oak trees sout the etime it entered Scott of the south of Walcott on co	thwest of Stockton, Iowa at the junction County Iowa but managed to blow over ounty route Y40. KDVN 88D velocity
	storm became pulse utes Y26 and F65.	storm became pulse severe in Muscatine ates Y26 and F65. The storm weakened	storm became pulse severe in Muscatine County uproo ates Y26 and F65. The storm weakened rapidly by the ary construction signs weighted down by sandbags just	of thunderstorms developed in a near tropical atmosphere north of a warm storm became pulse severe in Muscatine County uprooting large oak trees sout ites Y26 and F65. The storm weakened rapidly by the time it entered Scott Cary construction signs weighted down by sandbags just south of Walcott on case winds around 43 knots (50 mph) were reaching the surface. An RWIS 5

### MISSOURI, Northeast

MOZ009>010 Scotland - Clark

01 0000CST 0 0 8.5M Drought 31 2359CST

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Estimated Damage
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### MISSOURI, Northeast

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